



# Border Crossings Workshop

## February 23, 2005



# Purpose of Presentation

- ▶ Provide overview of Michigan's border crossings
- ▶ Provide information on role of border crossings in Michigan & National economy
- ▶ Provide information on current state border crossing programs & projects
- ▶ Provide information on private sector proposed projects
- ▶ Provide overview of coordination efforts
  - U.S. – Canada
  - Michigan – Ontario

# Michigan is an International Hub of Transportation Activity



# Economic Importance of Michigan's Border Crossings



# International Trade

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# Michigan Jobs

Michigan ranks 8<sup>th</sup> in nation at 174,000 jobs supported by US-Canada trade. (Canadian Embassy Report)

The bi-national feasibility study reports that as many as 25% of Michigan jobs are directly/indirectly tied to trade & tourism with Canada.

# Economic Importance Value of Trade (2002)

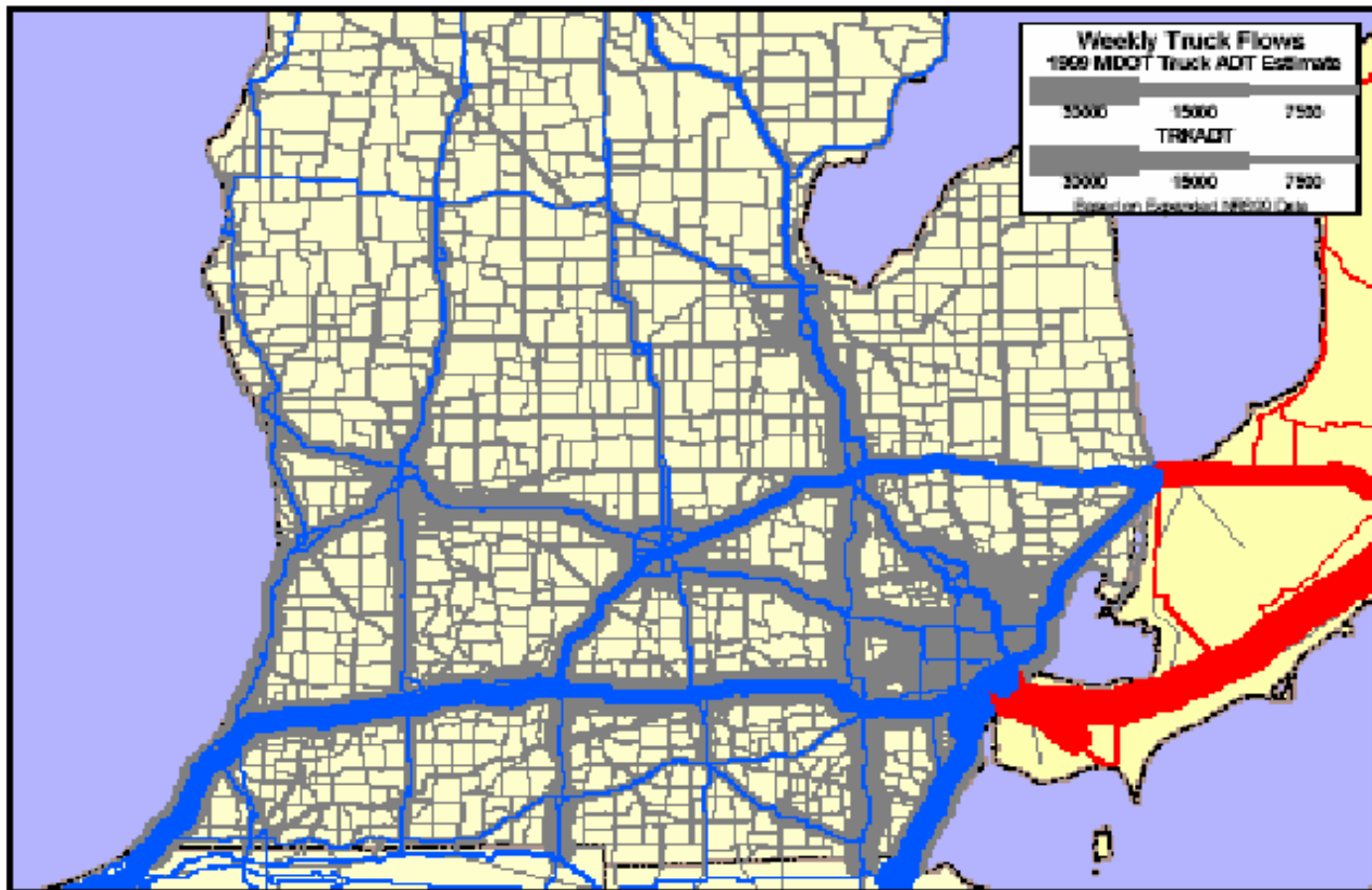
Port of Entry	All Modes	Truck
Detroit	\$100.8 Billion	\$85 Billion
Port Huron	\$57.3 Billion	\$32.8 Billion
Sault Ste. Marie	\$1.88 Billion	\$1.3 Billion





# Economic Importance

## Impact of International Truck Flows on Michigan's Highway Network



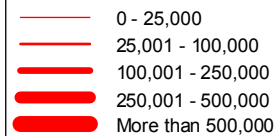


U.S. Department of Transportation  
Federal Highway Administration  
Office of Freight Management and Operations  
Operations Core Business Unit

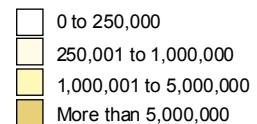
# MICHIGAN

## Total International Truck Flows (1998)

### Network Flows (Tons)



### State to State Flows (Tons)





# Cross-Border Commerce & Tourism

- ▶ Passenger traffic generates millions for local & regional economies
- ▶ 20 million passenger cars in 2002
  - 25% work-related
    - ▶ 5-10% of Detroit nurses reside in Canada
  - 40% dining, entertainment & casinos
  - 12% shopping

# Michigan Rail Trade

- ▶ \$40 billion with Canada & Mexico
- ▶ 45% of all North American rail trade comes through Michigan
  - California next largest at 10%
- ▶ Port Huron at \$22 billion is the #2 rail port in North America
- ▶ Detroit at \$15 billion is #3



MYTH:

Michigan & New York  
are in Competition

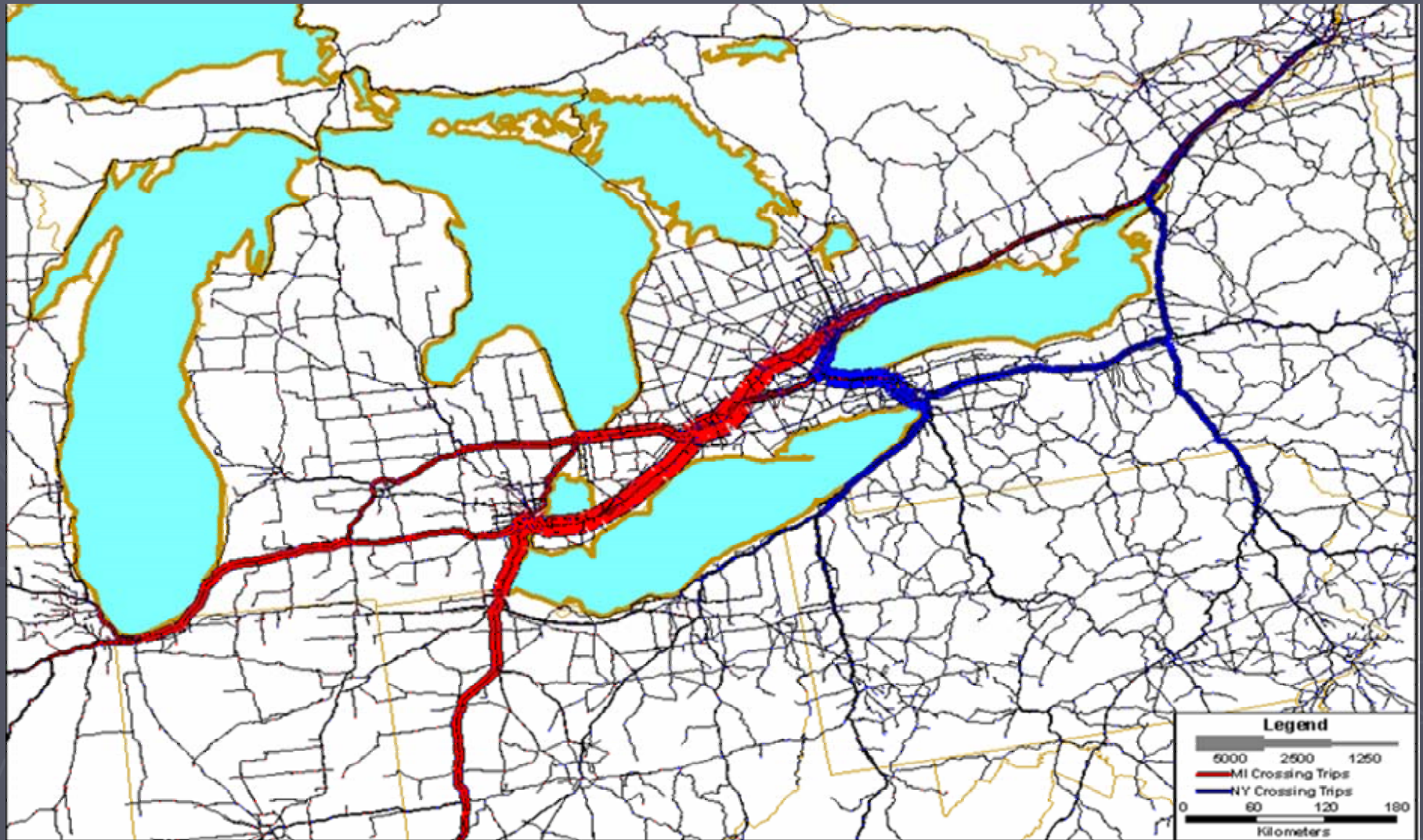


# Myth Debunked: Michigan & New York are in Competition

- ▶ Different trade corridors
- ▶ Different markets for commodities
- ▶ No indication of traffic shift from new crossing
- ▶ Working closely to increase federal funding
- ▶ Both new crossings needed to support economic growth of region
- ▶ Southwestern Ontario land bridge between Michigan & New York



# Michigan & New York Crossings Serve Very Different Markets



# Michigan's Vision & Goals for Michigan-Ontario Border





# Michigan's Vision for Borders

Provide for the seamless, safe & secure transport of goods, people & services in a cost-efficient & timely manner

Transportation Commission Policy: October 2004

# Michigan's Current Goals for Borders

1. Assure adequate transportation capacity
2. Protect & upgrade border facilities
3. Study needs to improve & expand facilities
4. Enhance collaboration, coordination & communication with stakeholder groups
5. Collaborate with partners
6. Increase federal funding for borders
7. Cooperate with agencies to improve flow of trade while maintaining national security

# Existing Crossings

- ▶ Key Facts
- ▶ MDOT's Role
- ▶ Investments



# St. Clair County Crossings



- ▶ Blue Water Bridge
- ▶ St. Clair River Railway Tunnel
- ▶ Blue Water Ferry
- ▶ Algonac – Walpole Island Ferry



# Location of St. Clair County Crossings



**HIGHWAY BRIDGE:**  
Blue Water Bridge

**RAIL TUNNEL:**  
St. Clair River Railway Tunnel

**PASSENGER FERRY:**  
Marine City, Michigan – Sombra, Ontario  
(Blue Water Ferry)

**PASSENGER FERRY:**  
Algonac, Michigan – Walpole Island, Ontario



# Blue Water Bridge

Port Huron, Michigan – Sarnia, Ontario





# Blue Water Bridge Key Facts

## ► History

- 1938 – Original span opens
- 1996 – Elevated plaza constructed
- 1997 – Second span opens
- 1999 – Original span reconstructed

## ► Public Ownership/Operation

- MDOT
- Blue Water Bridge Authority

## ► #2 US-Canada commercial crossing

## ► 2003 Traffic Volumes

- Passenger – 3.7 million crossings
  - Work, recreation, entertainment, shopping
- Commercial – 1.7 million crossings
  - Metal products, machinery, electronics, vehicles, precision goods, agricultural products

## ► Tolls

- Passenger Vehicles: \$1.50
- Commercial Vehicles: \$1.75/axle



# Strategic Objectives for Blue Water Bridge

- ▶ Accommodate projected traffic growth
- ▶ Ensure a safe & secure border
- ▶ Mitigate traffic & environmental impacts of the border
- ▶ Support economic development



# Blue Water Bridge

## Investments: Short Term



- ▶ Goal
  - 25% increase in throughput
- ▶ Action Plan
  - Estimated \$3.5 Million investment
    - ▶ Improve primary inspection
    - ▶ Expand plaza entry ramp
    - ▶ ITS signage
    - ▶ Security enhancements
    - ▶ Buffer Zone Protection Plan
- ▶ Schedule
  - 2005 – 2006

# Blue Water Bridge Investments: Long Term

- ▶ Goal
  - Meet 30-yr traffic & security needs
- ▶ Action Plan
  - Expand Blue Water Bridge Plaza
    - ▶ \$300-325 Million
- ▶ Schedule
  - Environmental Clearance: 2006
  - Design: 2006 – 2007
  - Construction: 2009 – 2012





# St. Clair River Railway Tunnel

Port Huron, Michigan – Sarnia, Ontario



- ▶ History
  - 1891 – Original tunnel open to traffic
  - 1995 – Original tunnel closes
  - 1995 – New tunnel open to traffic
- ▶ Private Ownership/Operation
  - Canadian National Railway Company
- ▶ #2 North American rail port
  - Approximately 11 million tons (2001)
- ▶ Utilized by railroad only
  - Included passenger rail service prior to May 2004

# Passenger Ferries

## ► Marine City, Michigan – Sombra, Ontario Ferry

- 1948 – Open to traffic
- Private Ownership/Operation
  - Blue Water Ferry, Ltd.
- Tolls
  - Foot Passengers: \$2 round trip
  - Cars: \$5
- Capacity: 9-12 cars OR 1-2 tractor trailers
- Year-round service (winter weather permitting)



## ► Algonac, Michigan – Walpole Island, Ontario Ferry

- Private Ownership/Operation
  - Walpole-Algonac Ferry Co., Ltd.
- Tolls
  - Foot Passengers: \$1
  - Cars: \$5
- Capacity: 9-12 cars
- Year-round service (winter weather permitting)





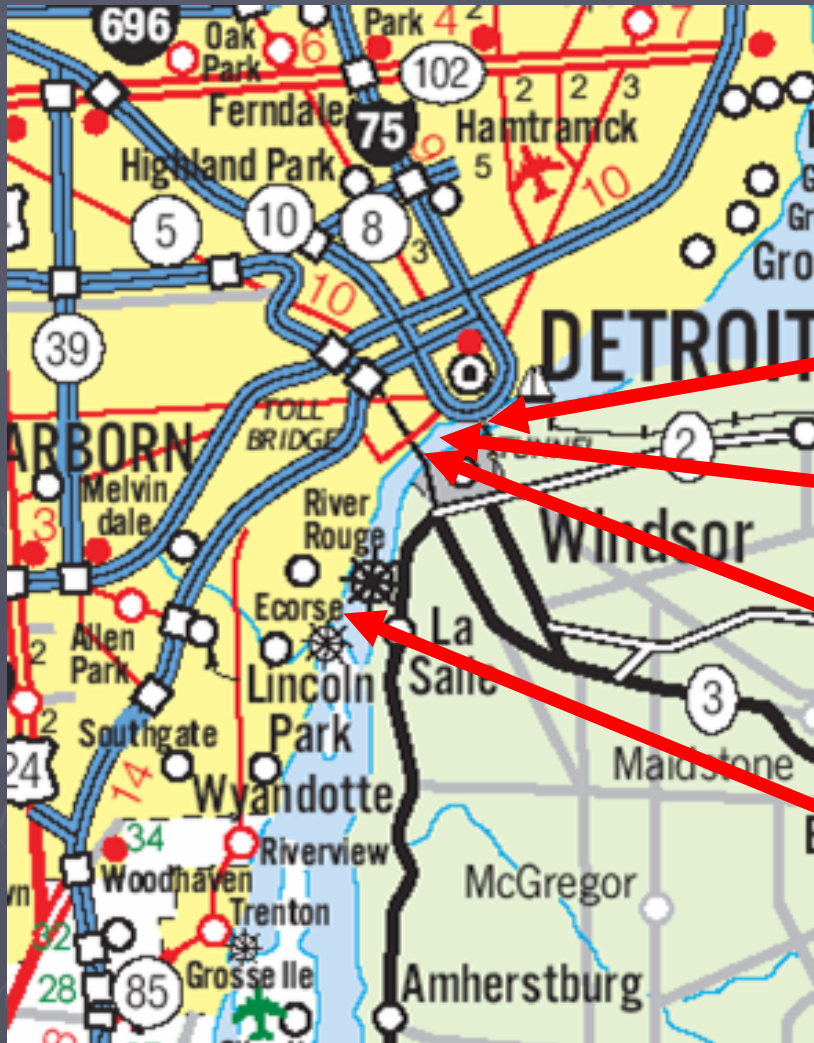
# Detroit Crossings



- ▶ Ambassador Bridge
- ▶ Detroit-Windsor Tunnel
- ▶ Detroit River Rail Tunnel
- ▶ Detroit-Windsor Truck Ferry



# Location of Detroit Crossings



HIGHWAY TUNNEL:  
Detroit-Windsor Tunnel

RAIL TUNNEL:  
Detroit River Rail Tunnel

HIGHWAY BRIDGE:  
Ambassador Bridge

TRUCK FERRY:  
Detroit-Windsor Truck Ferry

# Ambassador Bridge Key Facts

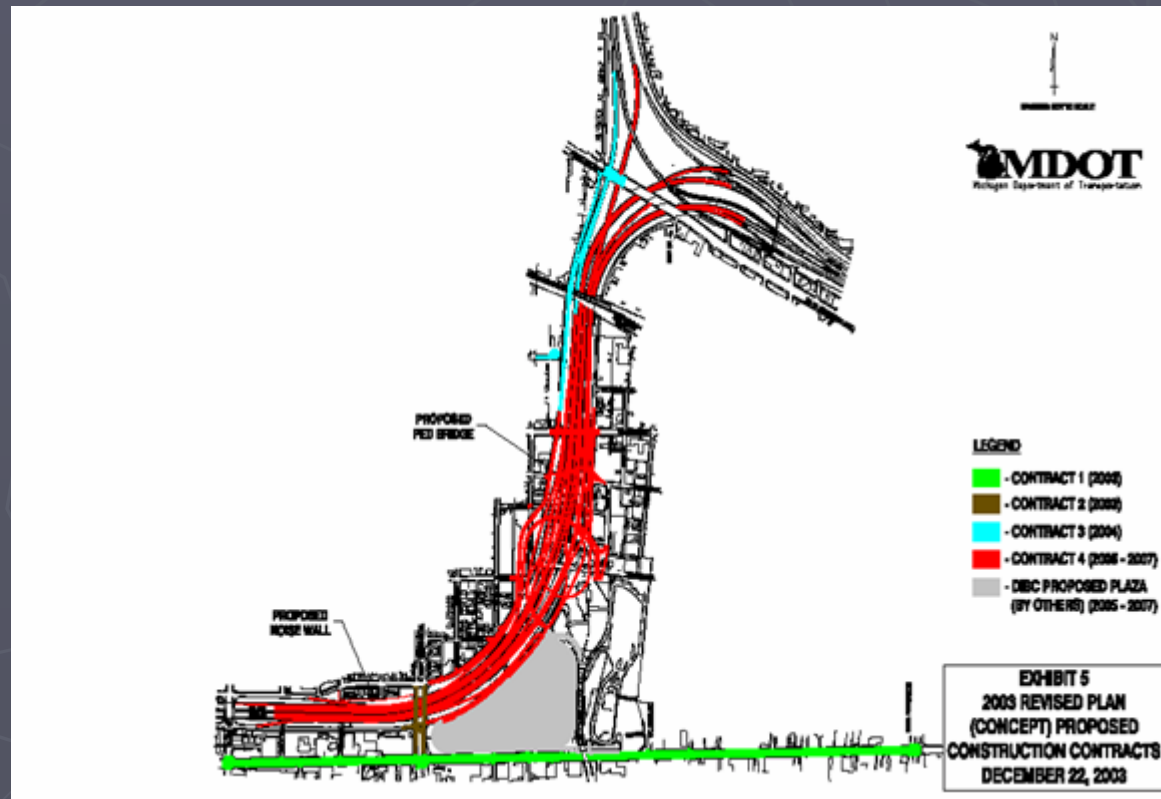


- ▶ History
  - 1929 – Open to traffic
- ▶ Private Ownership
  - Detroit International Bridge Company
  - Canada Transit Company
- ▶ Private Operator
  - Ambassador Bridge
- ▶ #1 US-Canada commercial crossing
- ▶ 2003 Traffic Volumes
  - Passenger – 6.3 million crossings
    - ▶ Work, recreation, entertainment, shopping
  - Commercial – 3.25 million crossings
    - ▶ Automotive products, machinery, precision goods, vehicles, electronics, agriculture
- ▶ Tolls
  - Passenger Vehicles: \$2.25
  - Commercial Vehicles: \$0.0225 per 100 lbs.

# Ambassador Bridge

## Investments: Short Term

- ▶ Goal
  - Address long-term congestion mitigation issues on Michigan interstates & roadways
- ▶ Action Plan
  - Gateway Project
    - ▶ \$185 million
    - ▶ Direct connection from I-75/I-96 to Ambassador Bridge
    - ▶ DIBC to release latest inspection report
  - Rehab existing ITS
- ▶ Schedule
  - Completion by 2007





# Detroit-Windsor Tunnel Key Facts

- ▶ History
  - 1930 – Open to traffic
- ▶ Public Ownership
  - City of Detroit
  - City of Windsor
- ▶ Private Operation
  - Detroit & Canada Tunnel Corporation
  - Detroit & Windsor Subway Company
- ▶ #1 US-Canada passenger crossing
- ▶ 2003 Traffic Volumes
  - Passenger – 6.4 million crossings
    - ▶ Work, recreation, entertainment, shopping
  - Commercial – 169,000 crossings
    - ▶ Automotive products, agriculture, fish, furniture
    - ▶ Bus operations between Detroit & Windsor
- ▶ Tolls
  - Passenger vehicles: \$2.50
  - Commercial vehicles: \$0.025 per 100 lbs.



# Detroit-Windsor Tunnel Investments: Short Term

- ▶ Goal
  - Provide for the safe & efficient flow of traffic
- ▶ Actions proposed by owners/operators
  - Plaza improvements to increase throughput
    - ▶ 2<sup>nd</sup> commercial lane
    - ▶ Secondary commercial inspection area
    - ▶ Adequately staff primary lanes
    - ▶ New in-bound passenger car access
  - ITS cameras, communications & signage (with MDOT)
    - ▶ Approximately \$500,000
- ▶ Schedule
  - 2005 – 2006

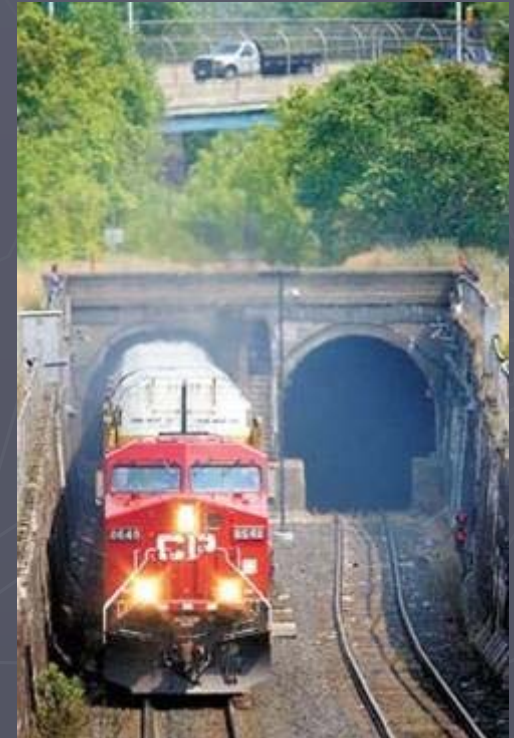




# Detroit River Rail Tunnel

Detroit, Michigan – Windsor, Ontario

- ▶ History
  - 1910 – Open to traffic
  - 1994 – Enlargement of one tube to accommodate some double-stacked containers
- ▶ Private Ownership
  - Detroit River Tunnel Partnership  
(Canadian Pacific & Borealis Transportation Infrastructure Trust)
- ▶ Private Operation
  - Canadian Pacific Railway
- ▶ #3 North American rail port
  - Approximately 10.5 million tons (2001)
- ▶ Connects to Chicago & Toronto markets



# Detroit-Windsor Truck Ferry



- ▶ History
  - 1990 – Open to traffic
- ▶ Private Ownership/Operation
  - Detroit-Windsor Truck Ferry, Inc.
  - Canadian Maritime Transit, Ltd.
- ▶ Primarily accommodates hazardous cargoes & oversize/overweight cargoes
- ▶ 9,000 – 10,000 trucks per year



# Detroit River International Crossing Study



# Preliminary Project Purpose

- ▶ Provide safe, efficient & secure movement of people and goods to support the economies of Michigan, Ontario, Canada and the U.S.
- ▶ Support mobility needs of national & civil defense

# Preliminary Statement of Project Need

- ▶ Provide new border crossing capacity
- ▶ Improve system connectivity
- ▶ Improve operations & processing capability
- ▶ Provide reasonable & secure crossing options

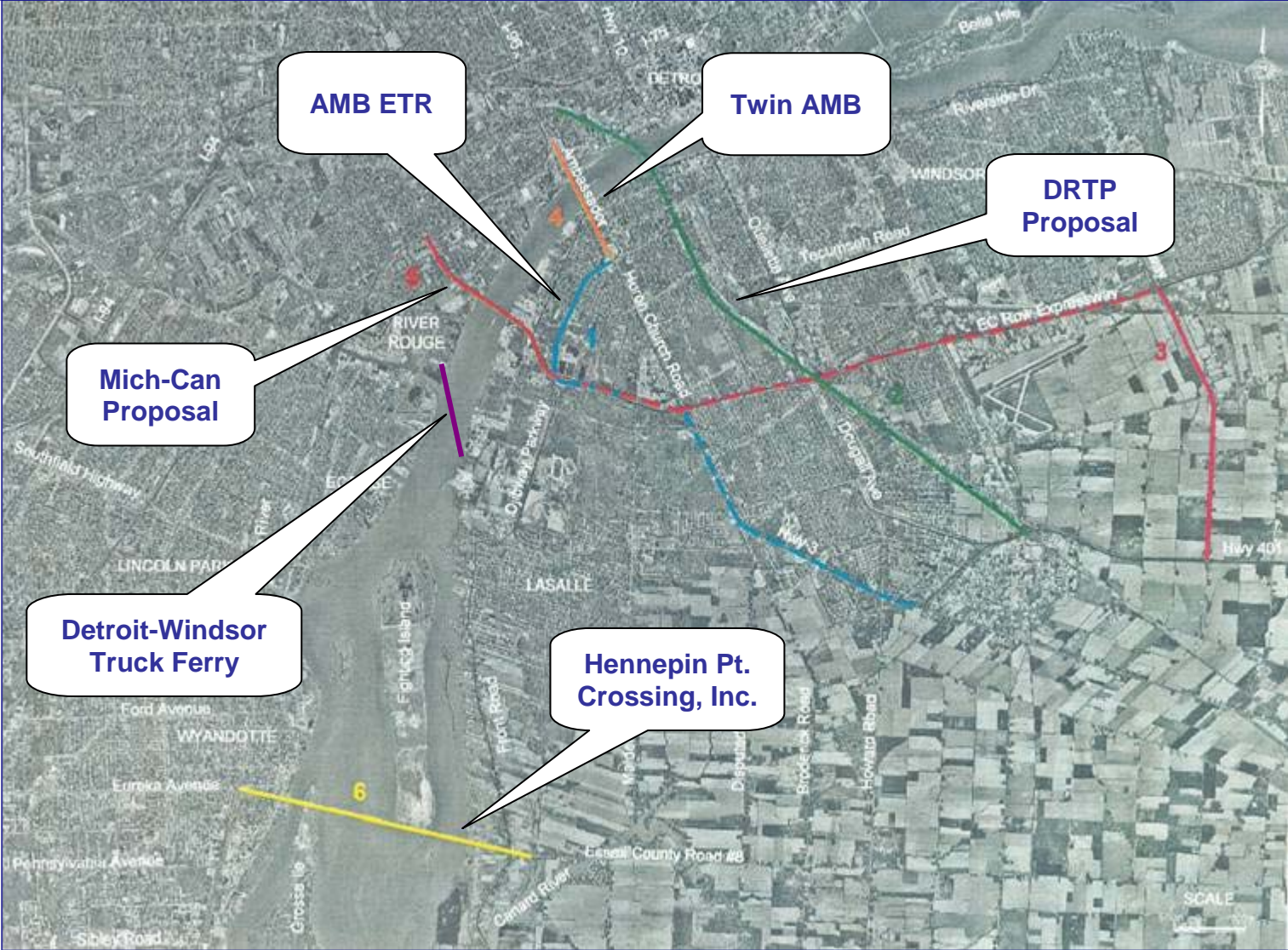


# Study Corridors

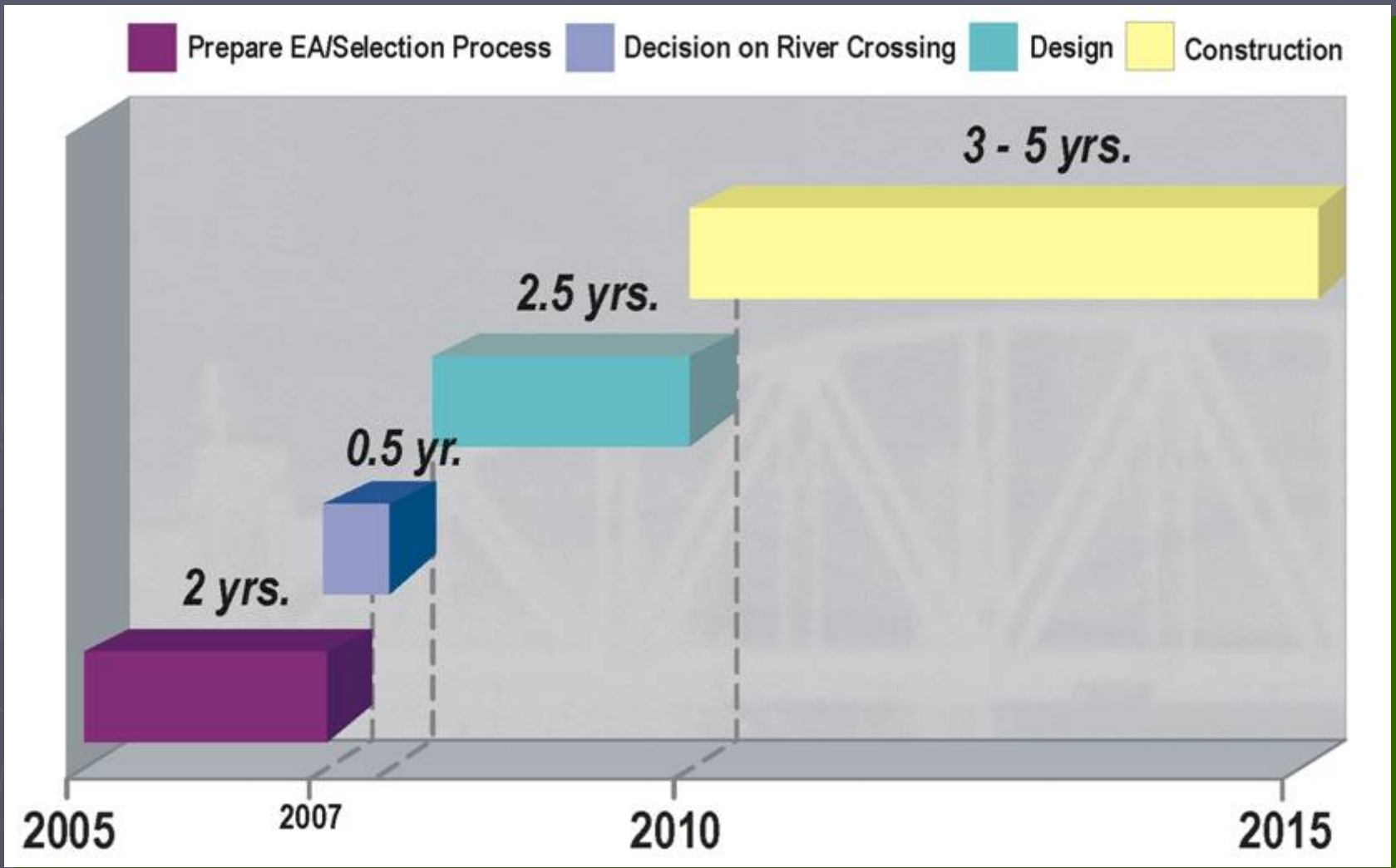




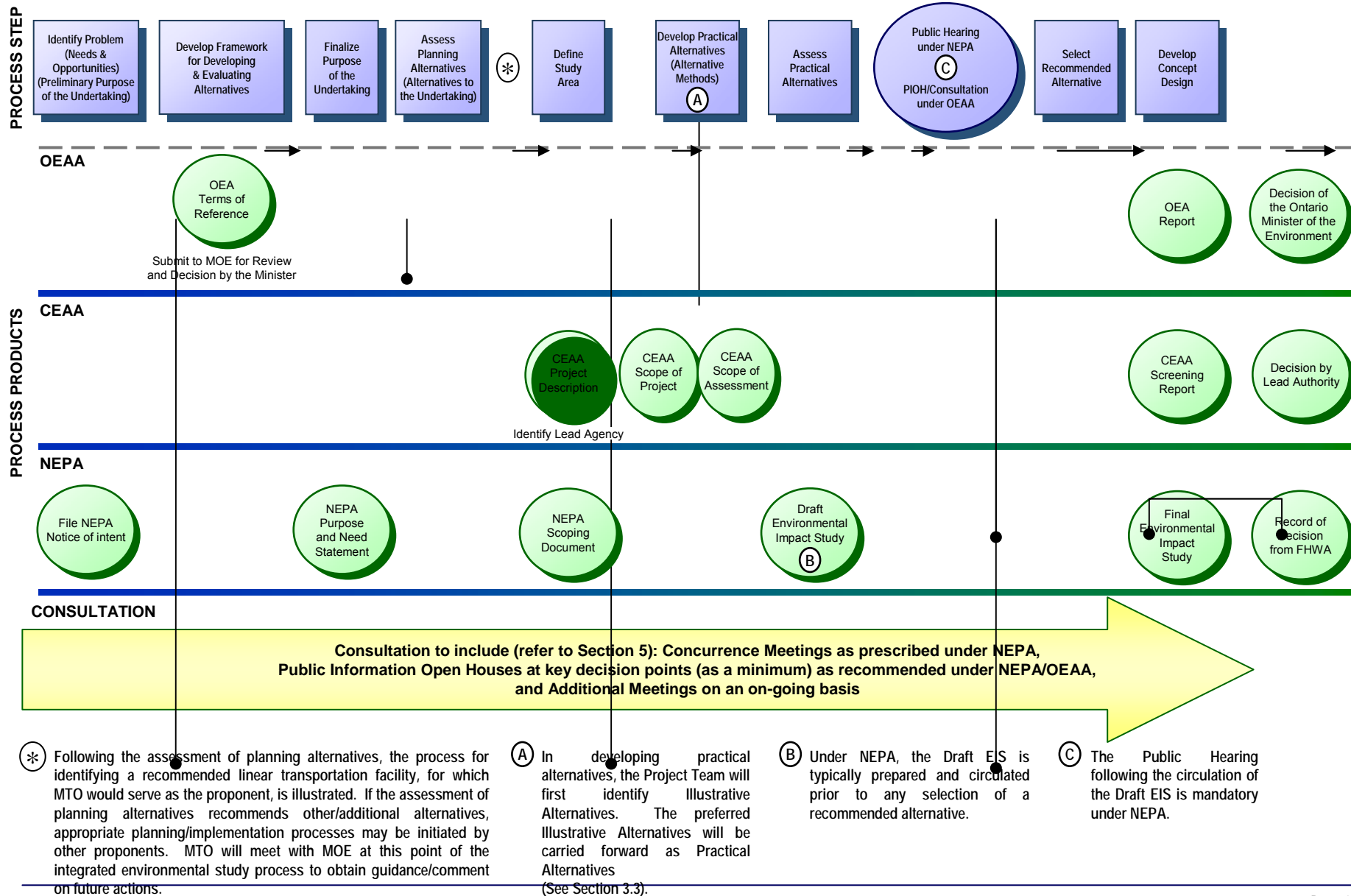
## Proposals by Private Sector



# Current Timeline



### EXHIBIT 1.3 - SCHEMATIC ILLUSTRATION OF THE INTEGRATED NEPA/OEAA/CEAA PROCESS ENVIRONMENTAL STUDY PROCESS FOR DETROIT RIVER INTERNATIONAL CROSSING



# Public Involvement

- ▶ Local Advisory Council
- ▶ Public Agency Group
- ▶ Private Proponents Group
- ▶ Public Meetings
- ▶ Project Web Site
- ▶ Media Contact
- ▶ Toll free Hotline





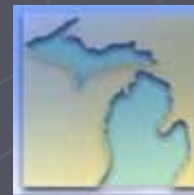
# Cooperating Agencies

- ▶ Federal Highway Administration
- ▶ U.S. Environmental Protection Agency
- ▶ U.S. General Services Administration
- ▶ U.S. Department of Homeland Security
- ▶ U.S. Army Corps of Engineers
- ▶ U.S. Fish & Wildlife Service
- ▶ U.S. Coast Guard
- ▶ U.S. Department of State



# Cooperating Agencies

- ▶ Michigan Department of Transportation
- ▶ Michigan Department of Environmental Quality
- ▶ Michigan Department of Natural Resources
- ▶ Michigan State Historic Preservation Office
- ▶ Southeast Michigan Council of Governments



# Sault Ste. Marie Crossings

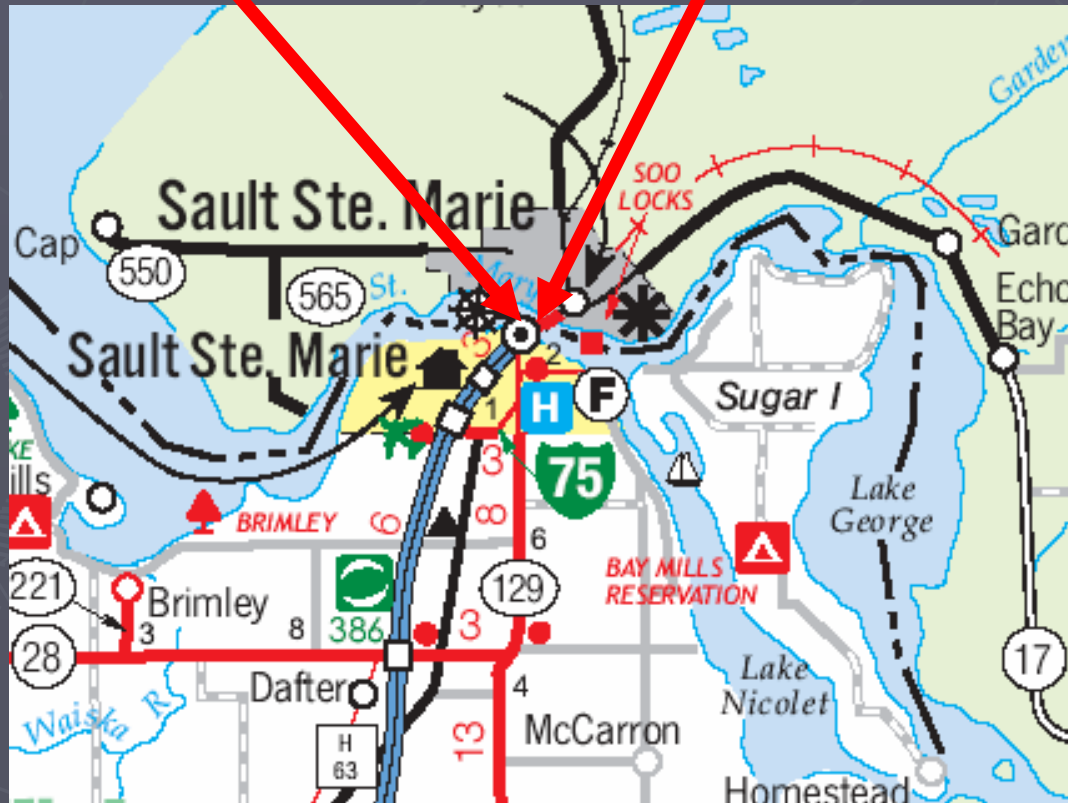


- ▶ International Bridge
- ▶ Canadian National Railway Bridge

# Locations of Sault Ste. Marie Crossings

RAIL BRIDGE:  
Canadian National Railway Bridge

HIGHWAY BRIDGE:  
International Bridge



# International Bridge

Sault Ste. Marie, Michigan – Sault Ste. Marie, Ontario





# International Bridge Key Facts

- ▶ History
  - 1935 – International Bridge Authority creation
  - 1962 – Open to traffic
  - 2000 – 40-year Intergovernmental Agreement
- ▶ Public Ownership
  - MDOT
  - Federal Bridge Corporation
- ▶ Public Operation
  - MDOT
- ▶ #19 US-Canada crossing
- ▶ 2003 Traffic Volumes
  - Passenger – 1.7 million crossings
    - ▶ Work, recreation, shopping
  - Commercial – 125,000 crossings
    - ▶ Steel, wood, textile, leather products
- ▶ Tolls
  - Passenger vehicles: \$1.50
  - Commercial vehicles: \$9-23



# International Bridge Governance & Operations

- ▶ 40-Year Intergovernmental Agreement
  - American-Canadian partnership to maintain & operate bridge
- ▶ Organizational Structure
  - Joint International Bridge Authority (JIBA)
    - ▶ 3 American members, 3 Canadian members
    - ▶ Operational & policy supervision for management of bridge
  - International Bridge Administration (IBA)
    - ▶ MDOT administrative entity
    - ▶ Day-to-day operational responsibility



# International Bridge

## Investments: Short Term

### ► Goal

- Provide for the safe & efficient movement of traffic

### ► Action Plan

- Security enhancement
  - \$1.185 Million
- Buffer Zone Protection Plan
- New \$15 M GSA border processing facility
- Future Canadian customs facility
- Canadian truck route

### ► Schedule

- 2005



New GSA Border Processing Facility

# Canadian National Railway Bridge

Sault Ste. Marie, Michigan – Sault Ste. Marie, Ontario

## ► History

- 1887 – Open to traffic

## ► Private Ownership/Operations

- Canadian National Railway Company

## ► #16 North American rail port

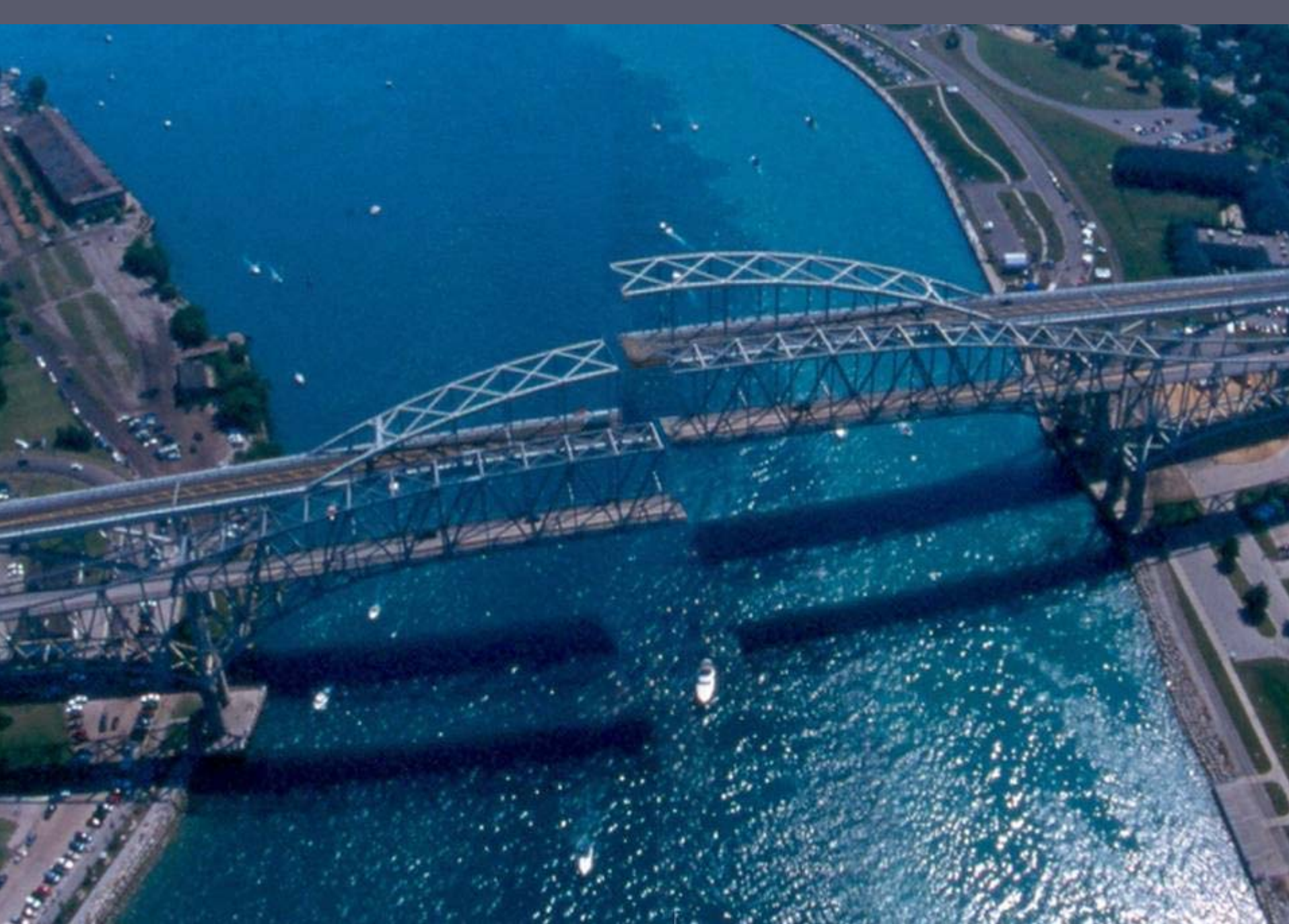
- Approximately 3.8 million tons (2001)



# Coordination







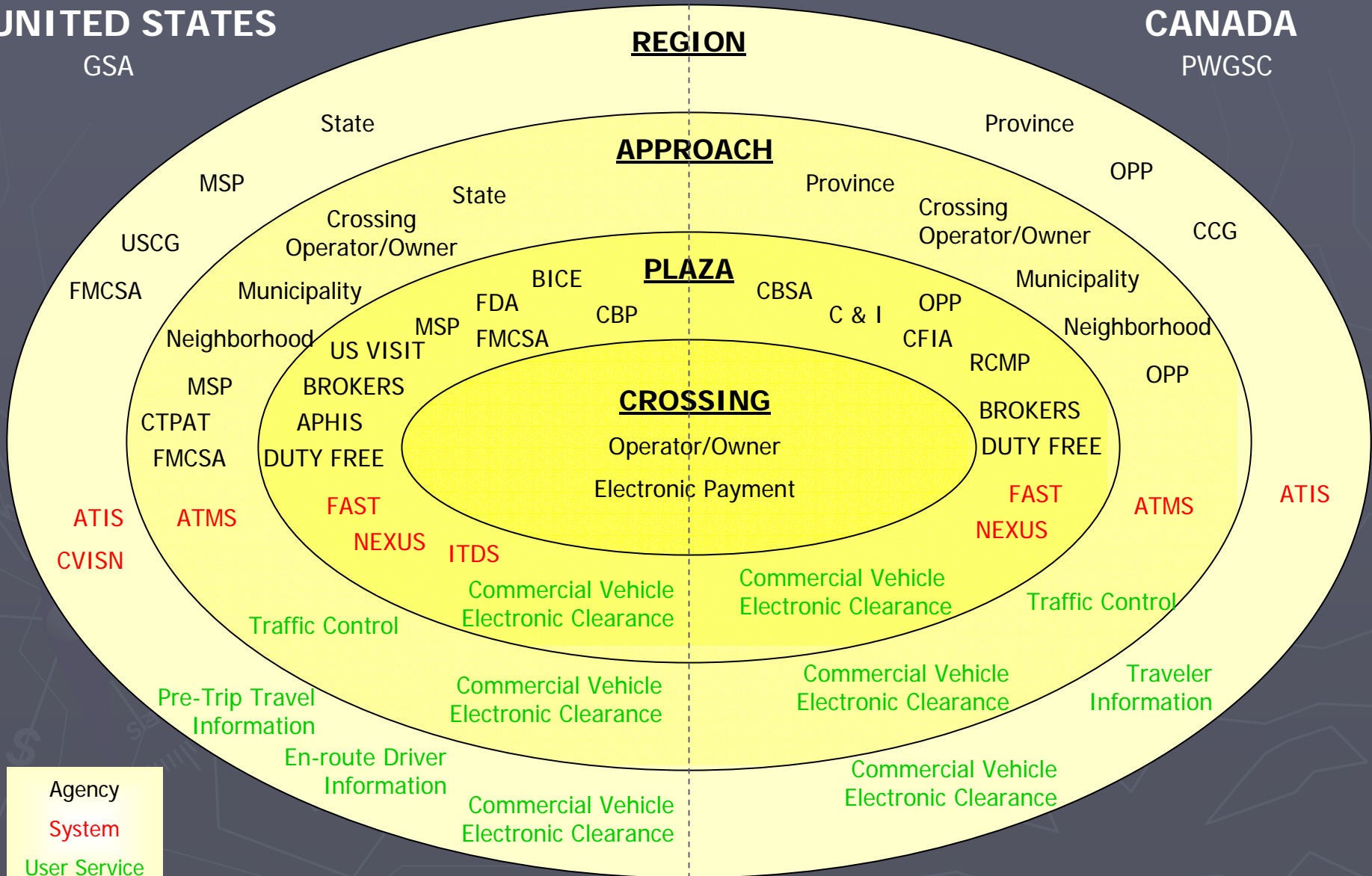
# Border Transportation Coordination Challenges

**UNITED STATES**

GSA

**CANADA**

PWGSC



# Ridge-Manley Agreement: US-Canada

Transportation Agencies ↔ Inspection Agencies

Economic Security = National Security



# Improving Border Infrastructure Planning Coordination

- ▶ MDOT closely working with U.S. & Canada border agencies, transportation agencies & communities
- ▶ Ontario-Michigan Border Working Group
- ▶ Advisory committees for projects
- ▶ Homeland security
  - Increased security at borders
  - Continue efficient flow of people & goods

# The Environmental Process

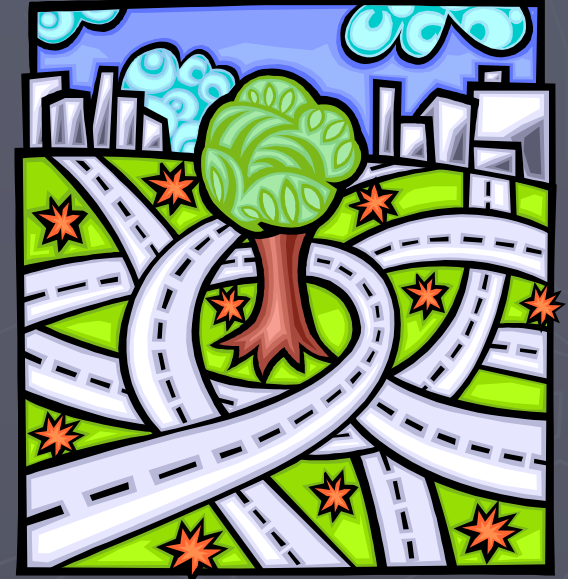
It's Role in Border Planning &  
Development



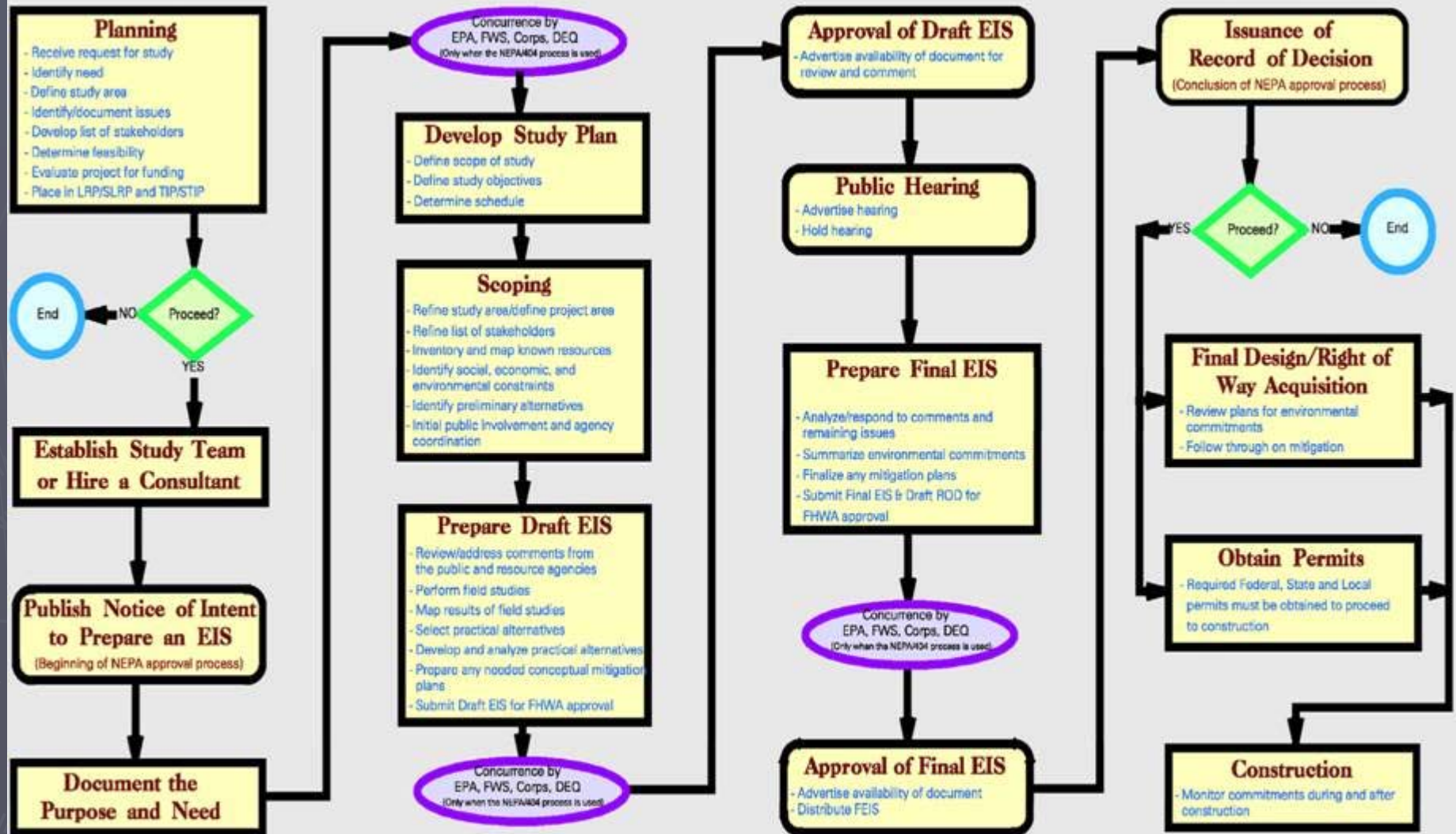


# National Environmental Policy Act (NEPA)

- ▶ Requires consideration of environmental impacts
- ▶ Encourages public participation
- ▶ Objective consideration of all reasonable alternatives
- ▶ Applies measures to avoid or reduce adverse impacts



# Environmental Impact Statement Process



# Increasing Federal Funding



# Increase Federal Funding for Borders



## ► Reauthorization

- National Highway Borders Act of 2005
  - Separate Borders program from Corridors program
  - Formula distributions
  - \$200 million for Michigan over next 6 years
- H.R. 3 – TEA-LU Coordinated Borders Program
  - \$175 million for Michigan over next 6 years

# Questions/Comments





# Border Crossings in Michigan

